

Appln. No.: 09/496,516
Amendment Dated March 11, 2004
Reply to Office Action of May 11, 2004

SAR 12165A

Amendments to the Specification:

Please replace the paragraph beginning at page 1, line 16, with the following amended paragraph:

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In addition to the clock data, a receiver needs to identify the beginning and the end of the transmission from the receiver transmitter. Systems have been developed which identify the beginning of the encoded data by transmitting an illegal Manchester code. An example of the illegal Manchester code is shown in Figure 14. Manchester encoded data typically only includes two consecutive high data bits(e.g. "11"). The illegal code includes four consecutive high data bits (e.g. "1111"). As a result, an increased bandwidth transmitter is necessary to transmit the illegal Manchester code. Further, the illegal Manchester code includes three low data bits (e.g. "000"). As a result, the receiver may have difficulty synchronizing its internal clock. Further, the energy of the transmitted signal over a period of time is reduced. As a result, the receiver may increase its gain because of the reduced energy and, thus, reduce its signal to noise ratio.